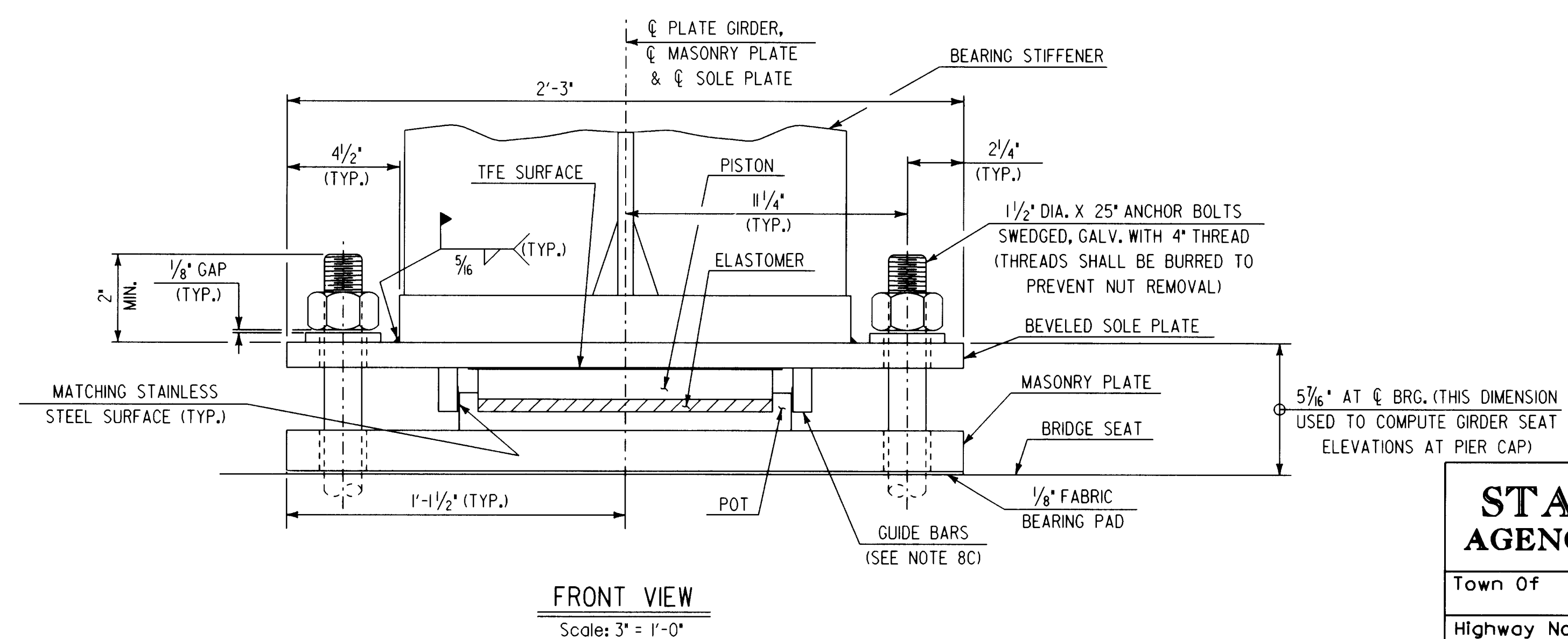
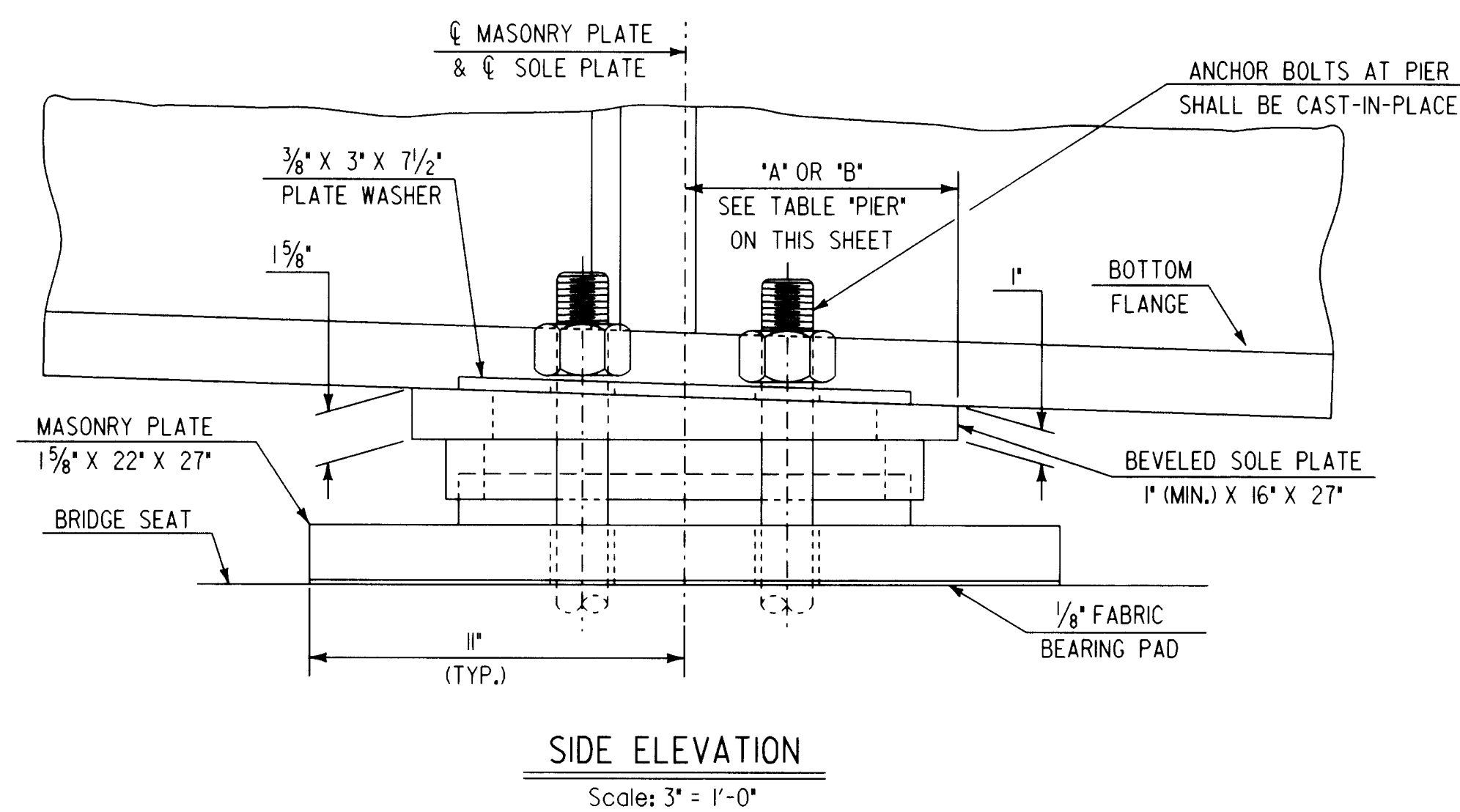
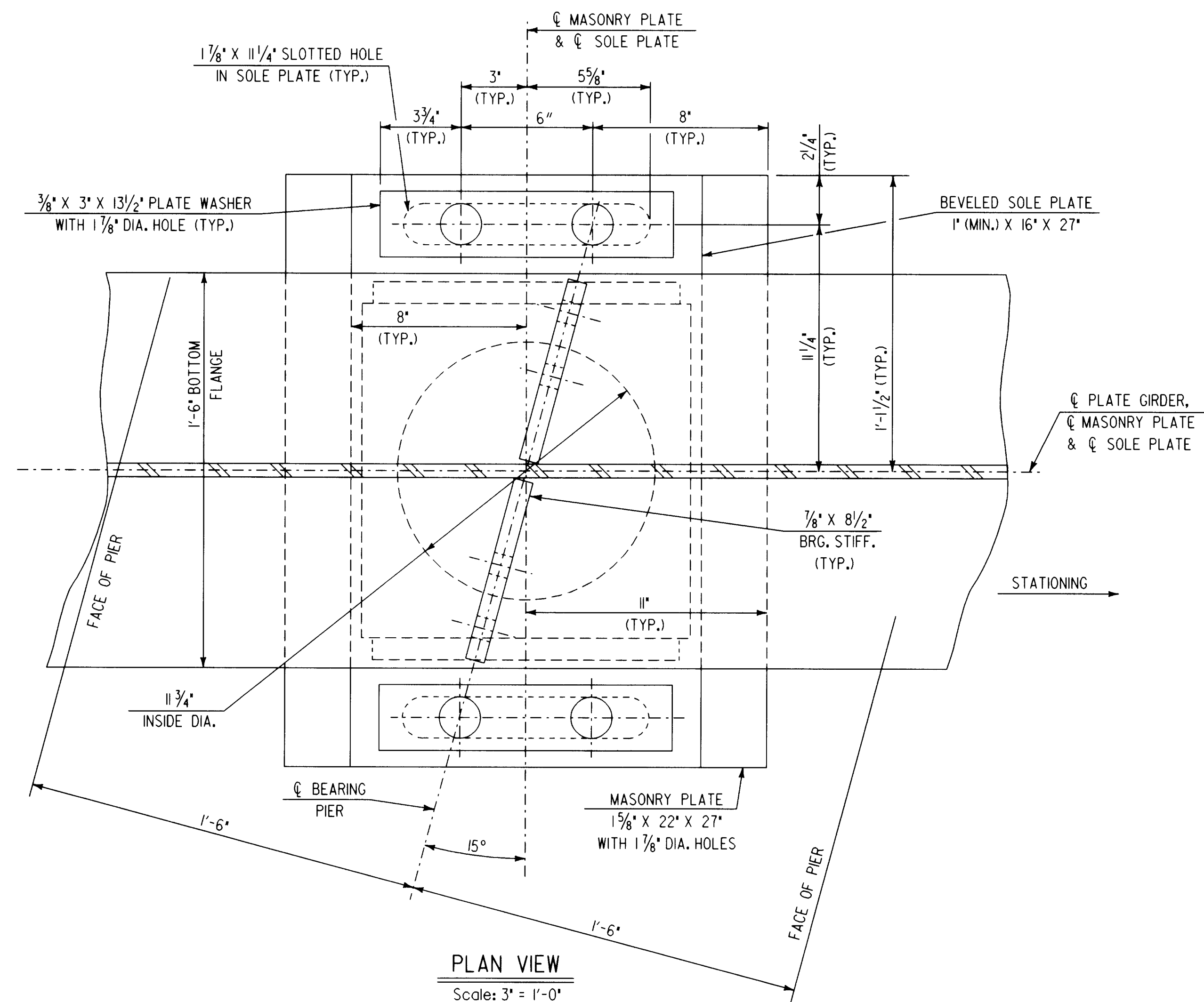


BEARING NOTES

- BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731 AND SHALL BE PAID FOR UNDER THE ITEM 531.0 'BEARING DEVICE ASSEMBLY'.
- THE FIELD WELD CONNECTING THE BOTTOM FLANGE WITH THE BEARING DEVICE SHALL BE MADE WITH E7018 RODS.
- ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER SECTION 531.04(b) AND 506.15(a) AND (b). AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDS OR HANDLING SHALL BE PAINTED WITH AN APPROVED SEALANT IN ACCORDANCE WITH SUBSECTION 531.04.
- ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THIS SHEET, AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
- BRIDGE SEAT ELEVATIONS MUST BE REVISED TO ACCOMMODATE AN ALTERNATE CONFIGURATION.
- THE CONCRETE SURFACE UNDER THE BEARING DEVICE SHALL BE LEVEL.
- 'A' DISTANCE IS THE FINAL SETTING FOR THE BEARING PAD AFTER THE CONCRETE SLAB, CURB, PAVEMENT AND BRIDGE RAIL ARE PLACED. 'B' DISTANCE IS LISTED FOR SETTING THE BEARING AFTER THE STRUCTURAL STEEL IS ERECTED AND BEFORE THE CONCRETE DECK IS POURED. THE DIFFERENCE IS THE THEORETICAL ELONGATION OF THE BOTTOM FLANGE DUE TO DEAD LOAD DEFLECTION. THE FINAL 'A' DISTANCE AS SHOWN IN THE TABLE, MUST BE ATTAINED WITHIN 1/8 INCH.
- DESIGN CRITERIA:
 - BASE PLATE TO CONCRETE DESIGN PRESSURE = 1,000 PSI MAXIMUM.
 - MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIAN.
 - TRANSVERSE HORIZONTAL CAPACITY SHALL BE A MINIMUM 10% OF VERTICAL LOAD. GUIDE BARS SHALL BE DESIGNED FOR THIS CAPACITY.
 - DESIGN LOAD PER BEARING = 370 KIPS AT PIER AND 130 KIPS AT ABUTMENTS.

PIER		
TEMP	'A' DIST	'B' DIST
0°F	8 1/2"	8 1/8"
15°F	8 3/8"	8 1/16"
30°F	8 7/16"	8 1/2"
45°F	8"	8 3/8"
60°F	7 7/8"	8 3/16"
75°F	7 1/2"	8"
90°F	7 1/4"	7 7/8"
105°F	7 1/8"	7 1/16"



EXPANSION BEARING DETAIL AT PIER

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of	SPRINGFIELD	Bridge No.	44
Highway No.	U.S. ROUTE 5	Log Sta.	
		Surv. Sta.	
U.S. ROUTE 5 OVER BLACK RIVER			
BEARING DETAIL AT PIER			
Designed By	S. BAKI	Drawn By	
Checked By	Date	Bridge Design Supervisor	
	6-95	P. PIERCE	Date 5/96
PROJECT	SPRINGFIELD		
	PROJECT NO. BRS-RS 0113 (8)		
I.G.C. Info.	c:\usr\j9145622\spbering.dgn		
Bridge Sheet No.	BRI15	Sheet	44 of 90